EXTENDED PURGE VOLUME MODEL

Delivery

Port

Check Valve

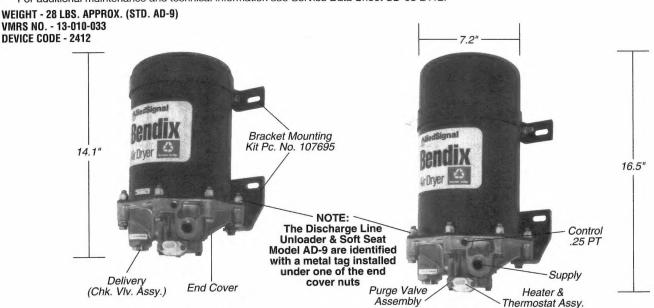
> Safety VIv. -

The AD-9 air dryer is a desiccant type, discharge line filtration system that removes solid and vapor contaminants and provides dry air to the brake system. It incorporates an automatic drain valve which is controlled by the compressor governor. The AD-9 is designed for vehicles that utilize compressors of up to 25cfm displacement and where normal compressor loaded time is no more than 60 seconds and unloaded time is 30 seconds or greater.

The AD-9 is offered in two different physical sizes. The smaller, and more common, AD-9 contains a 200 cu. in. purge volume and is intended for most truck and tractor applications. The larger version, or extended purge model, has a 300 cu. in. purge volume and is intended for higher air usage vehicles such as transit coaches. In addition to the two sizes, a special version of the AD-9 is available for use on European style air systems that incorporate the unloader function in a separate valve known as the Discharge Line Unloader (DLU) valve. When the AD-9, DLU model, is used in this type of system, the need for the Discharge Line Unloader valve is eliminated.

All AD-9 Air Dryers are equipped with either a 12 or 24 volt, 75 watt heater and thermostat assembly which is now serviceable as a separate assembly.

For additional maintenance and technical information see Service Data Sheet SD-08-2412.



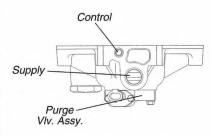
Universal Kits & Replacement Assemblies

STANDARD MODEL

Part No.	Description					
107796	Service New - Desiccant Cartridge					
107794	Reman. Exchg Desiccant Cartridge					
109579	24 Volt Heater & Thermo.					
109578	12 Volt Heater & Thermo.					
107798	Purge Valve Assy. Maintenance Kit					
107695	Bracket Kit					

					Purge Valve Assy.					
AD-9 Service Part No.	AD-9 Reman. Exch. Part No.	End Cover Supply Assy. & Complt. Delivery New Port Size		Check Valve Assy.	Heater Voltage (75 Watt)	Assy. Complt. w/Heater	Purge VIv. Assy. Complt. w/Heater Reman.	Heater & Thermo. Kit	Comments	
65224	_	65229	.75" PT	107799	24	109570	109695	109579		
65225	109685	65231	.50" PT	107800	12	109569	109686	109578		
65226	109687	65230	.75" PT	107799	12	109569	109686	109578		
65227	109688	65229	.75" PT	107799	24	109570	109695	109579	Extended Purge	
65228	_	65230	.75" PT	107799	12	109569	109686	109578	Extended Purge	
65243	_	65231	.50" PT	107800	12	109569	109686	109578	Extended Purge	
65453	_	65454	.50" PT	107800	24	109570	109695	109579	Extended Purge	
65499	_	65498	.50" PT	107800	12	109580	_	109578	Discharge Line Unloader Model	
65605	_	65604	.50" PT	107800	24	109599	_	109579	Discharge Line Unloader Model	
65649	_	65653	.75" PT	107799	24	109570	109695	109579	Soft Seat	
65650	109689	65654	.50" PT	107800	12	109569	109686	109578	Soft Seat	
65651	109690	65655	.75" PT	107799	12	109569	109686	109578	Soft Seat	
65652	109691	65653	.75" PT	107799	24	109570	109695	109579	Soft Seat - Extended Purge	

End Cover Bottom View



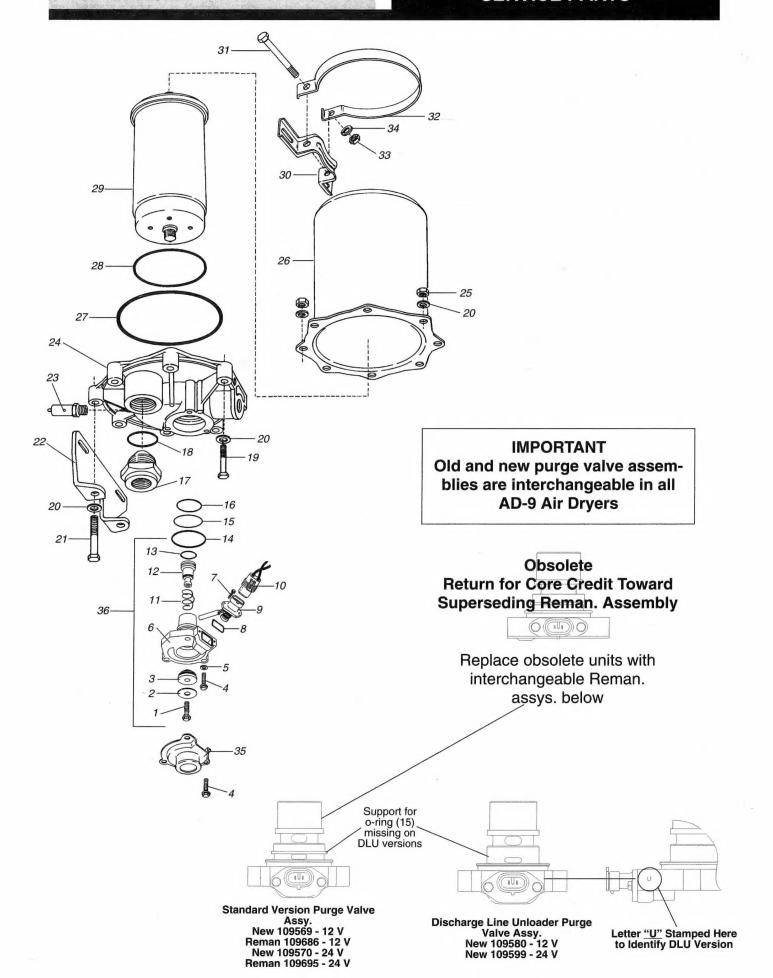
End Cover Side View

Heater & Thermo.

Assy.

Exhaust

MAINTENANCE KITS & SERVICE PARTS



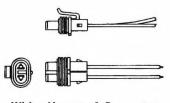
AD-9 Air Dryer Parts List Kits and Service Replacment Assemblies

Key	Description	New Repimt Purge VIv. Assy. Compit. w/Heater 109569 - 12v 109570 - 24v	Reman Purge VIv. Assy. Complt. w/Heater 109686 - 12v 109695 - 24v	New Repimt Purge Viv. Assy. Compit. w/Heater (DLU) 109580 - 12v 109599 - 24v	Desiccant Cartridge Kit New - 107796 Reman - 107794	Purge VIv. Maint. Kit 107798	Heater & Thermo Kit 109578 - 12v 109579 - 24v (See Note 1)	Check VIv. Maint. Kit 107799 - 3/4" 107800 - 1/2"	Mounting Brkt. Kit 107695
1	Purge Valve Shoulder Bolt					X			
2	Exhaust Diaphragm					Х			
3	Purge Valve					Х			
4	1/4" Tapping Screw	X-3	X-3	X-3	-	X-3			
5	Flat Washer	X-3	X-3	X-3		-			
6	Purge Valve Housing								
7	#8 Self Tapping Screw						X-2		
8	Sealing Ring						X		
9	Heater & Thermostat Assy.						X		
10	Wire Harness & Connector	298948							
11	Spring					Х			
12	Purge Piston								
13	O-Ring	100				Х			
14	O-Ring	X	Х	Х		X	X		
15	O-Ring	X	X			X	X		
16	O-Ring	X	Х	Х		X	X		
17	Check Valve Assy.		4,1					Х	
18	Check Valve O-Ring							X	
19	3/8" x 2 1/8" End Cover Cap Screw				***				
20	3/8" Special Washer								X-4
21	3/8" x 2 3/8" Bracket Cap Screw								X-2
22	Lower Mounting Bracket								X
23	Safety Valve				285849				
24	End Cover								
25	Lock Nut								X-2
26	Housing								7.2
27	O-Ring				×				
28	O-Ring				×		-		
29	Desiccant Cartridge Assy.				X				
30	Upper Mounting Brkt.				^				Х
31	5/16" x 4 1/2" Upper Brkt. Bolt								X
32	Upper Brkt. Strap								X
33	5/16" Nut								X
34	5/16" Lock Washer								X
35	Exhaust Cover (See Note 2)				112399				_ ^
36	Complete Purge Valve Assy.	X	X	Х	112399				

GENERAL: All kits and replacement parts and assemblies can be used in any version of the AD-9 unless otherwise noted.

Note 1: These heater and thermostat kits are for use in the new replacement purge valve assemblies and can not be installed in the old configuration purge valve assembly.

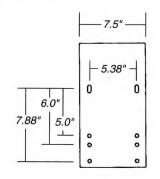
Note 2: The service AD-9 Air Dryers listed are not supplied with an extended exhaust cover, however the extended exhaust cover Pc No. 112399 can be installed on any new purge valve assemblies to allow the connection of a hose to direct expelled contaminants, away from the vehicle. This exhaust cover is available as a separate item.



Wiring Harness & Connector Pc. No. 298948

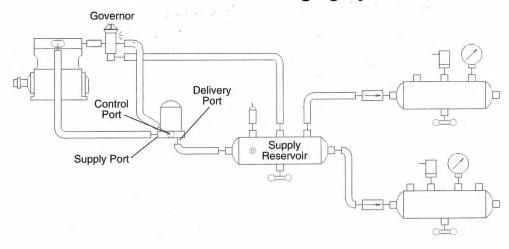


Extended Exhaust Cover Pc. No. 112399

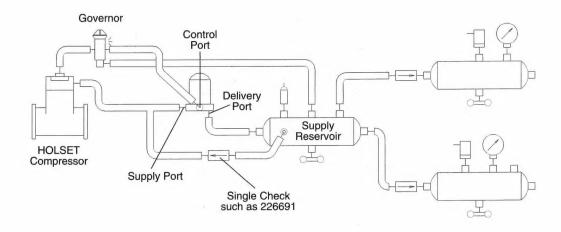


Universal Mounting Plate Pc. No. 248478 (Can be used to mount <u>ANY</u> Air Dryer to vehicle)

AD-9 in Standard Charging System



Holset Compressor and Soft Seat AD-9 Charging System



DLU Model AD-9 in Discharge Line Unloader Charging System (Discharge Line Unloader Valve Replaced by AD-9)

